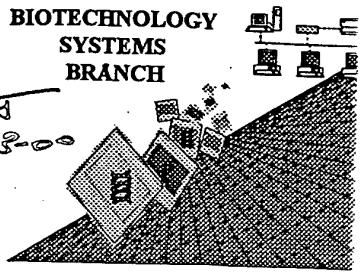


Parker

RAW SEQUENCE LISTING

ERROR REPORT



The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following CRF diskette:

Application Serial Number:

09/184,418

Art Unit / Team No.:

164/

Date Processed by STIC:

6/7/2000

~~RECORDED~~

JUL 07 2000

TECH CENTER 1800/2900

THE ATTACHED PRINTOUT EXPLAINS THE ERRORS DETECTED.

PLEASE BE SURE TO FORWARD THIS INFORMATION TO THE APPLICANTS BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANTS ALONG WITH A NOTICE TO COMPLY or,**
- 2) CALLING APPLICANTS AND FAXING THEM A COPY OF THE PRINTOUT WITH A NOTICE TO COMPLY**

THIS WILL INSURE THAT THE NEXT SUBMISSION RECEIVED FROM THEM WILL BE ERROR FREE.

IF YOU HAVE ANY FURTHER QUESTIONS, PLEASE CALL:

MARK SPENCER 703-308-4212

RAW SEQUENCE LISTING
 PATENT APPLICATION: US/09/184,418 DATE: 06/07/2000
 TIME: 14:48:27
 Input Set : A:\Hiv11.app
 Output Set: N:\CRF3\06072000\I184418.raw

3 <110> APPLICANT: Hahn, Beatrice
 4 Gao, Feng
 5 Shaw, George
 7 <120> TITLE OF INVENTION: REFERENCE CLONES FOR NON-SUBTYPE B ISOLATES OF HUMAN
 8 IMMUNODEFICIENCY VIRUS TYPE 1
 10 <130> FILE REFERENCE: 3532-4000
 C--> 12 <140> CURRENT APPLICATION NUMBER: US/09/184,418
 -13 <141> CURRENT FILING DATE: 1998-11-02
 15 <160> NUMBER OF SEQ ID NOS: 108
 17 <170> SOFTWARE: PatentIn Ver. 2.0

Does Not Comply
 Corrected Diskette Needed

ERRORED SEQUENCES

508 <210> SEQ ID NO: 4
 509 <211> LENGTH: 8992
 510 <212> TYPE: DNA
 511 <213> ORGANISM: Human immunodeficiency virus type 1
 513 <220> FEATURE:
 514 <223> OTHER INFORMATION: isolate=92RW009; 139.1624:gag;
 E--> 515 <1690.4438.pol(N-terminus uncertain); *add <223> to beginning of each line in <223> section*
 520 <400> SEQUENCE: 4
 521 atgaaaggcga aagtaagacc agaggagatc tctcgacgcg ggactcggt tgctgaaagt 60
 522 gcactccggca agaggcgaga gcccggcgtg gtggatcacgc caaattttat ttgactacgc 120
 523 gaggttagaa ggagagagat ggtgcgaga gctgtcaatat taagaggcgaaa aaaaatttagat 180
 524 gcttggaaat aaattaaggta aaaggccaggg gggaaagaaa acatataatgat tggaaacacct 240
 525 agtatgggca agcaggggagc tggaaagatt tgcacttaac cctgacccct tagagacacc 300
 526 agaaggctgt aaacaataa ttagacagatc gcaaccaggct cticagacag gaacagatga 360
 527 acttagtcataatataa cagtagcaac cctctattgt gtacatcaa agatagatgt 420
 528 aaaagacacc aaggaggccct tagacaagat agaggaagaa caaaacaaaa gtcagcaaaa 480
 529 aacacagcag gcagaaggcag ctgacaaaagg aaaagtcatgt caaaattacc ctatagtgca 540
 530 aatgcacaaat gggccaaatgg tacaccaggc catatccatgtt gatgcgtgggt 600
 531 aaaaatataa gaggagaagg cttttagcca agaggtaata cccatgttta cagcattatc 660
 532 agaaggagcc accccacaag attaaacac catgctaaat acagtgggg gacatcaagc 720
 533 agccatgc aaatgcataat aatacatcaat tgaggaggct gcaagatggg atagggttaca 780
 534 tccatgtccag gcaggccctg ttgcgcagg ccagataaga gaaccaagg gaaatgtacat 840
 535 agcaggaaact actagatcccc ttccagaaacaa atatgcattttt gatgcacaaat acccacttat 900
 536 tccatgtgggaa gaaatttataa aaaaatggat aattctgggg ttaaataaaaa tagtaagaat 960
 537 gtatagccct gtcaatgttggatataaa acaaggccca aaggaaacctt tttagagacta 1020
 538 tggatggccgg ttctttaaaaa ccttaagagc cgaacaagatc tcacaagatg taaaaaatttg 1080
 539 gatgacagat accttgttag tccaaatgc gaaacccagat tggatggccat ttttaagagc 1140
 540 attaggccca ggggcattcat tagaaat gatgacagca tgccagggg tggggaggacc 1200
 541 cggccataaaat gcaagggtttt tggtgtggc aatggccaaat gatcaacaaat caaacataat 1260
 542 gatgcagaga ggcaatttta agggccagag aaaaattttt aatgtgttca actgtggccaa 1320
 543 agaaggacac ctggccagaa attgcaggcc cccttagaaaa aagggtgtt ggaatgtgg 1380
 544 aaaggaggga caccaatgaa aagactgcac tgagagacag gctaattttt tagggaaaat 1440
 545 ttggcccttcc aacaaggggaa gcccaggaaa ttttcccccag agcagactgg agccaaacagc 1500

RAW SEQUENCE LISTING DATE: 06/07/2000
 PATENT APPLICATION: US/09/184,418 TIME: 14:48:27

Input Set : A:\Hiv11.app
 Output Set: N:\CRF3\06072000\I184418.raw

546 cccaccagca gagaactttg gaatggggga agagatagcc tctcctctga aacaggagca 1560
 547 gaaagacagg gaaccttta ttccctcaa atcaactttt ggcaacgacc ccttgtcaca 1620
 548 gtaaaaatag gaggctagct aagagaatgc ctattagata caggagcaga tgatacaga 1680
 549 tttagaagaaa taaaatgtcc aggaaaaatgg aaaccaaaaa tgataggggg aattgggggt 1740
 550 ttatatacagg taaaacagta tgatcaaata cttatagaaa ttgtggaaa aaaggctata 1800
 551 ggtacatgt tagtaggacc tacatctgtc aacataatgg gaagaaatgt gttgacccag 1860
 552 attgggttta cttaaaactt tcacatgtt cttattgaga ctgttacagt agcattaaag 1920
 553 ccaggaatgg atggccaaa gtttaacaa tggcattga cagaagaaaa aataaaagca 1980
 554 ttaagagaaa ttgtacaga aatggaaaaa gaggaaaaat ttcaaaaat cgggcctgaa 2040
 555 aatccatata acatcccgat attgcccata aaaagaagg acagtactaa gtggagaaaa 2100
 556 tttagtagatt tcaggaaact caacaaaga actcaagact ttgtggaaat ccaattagg 2160
 557 ataccacacc cagcagggtt aaagaagaaa aatcagtga cagtaactgga tggggggat 2220
 558 gcatacttct cagttccctt agatgagac ttccaggata atactgcatt caccataact 2280
 559 agtataaaaca atgaaacacc aaggatagg tatcaataat atgtgttcc acagggtatgg 2340
 560 aaaggatcac cacaatattt ccaaaaatgt atgacaaaaa tcttagagcc cttagggca 2400
 561 caaaaaccaag aaatagtgtat ctatcaatat atggatgact tgcgttggat atctgactta 2460
 562 gaaataggcc aacatagacg aaaaatagag gaggtaaagg aacatcttatt aaagtgggg 2520
 563 ttaccacac cagacacaaa acatcagaaa gaacctccat ttctttggat ggggtatgaa 2580
 564 cttcatctg acaaatggac agtacaaacctt atacagctgc cagaaaaagga tagctggact 2640
 565 gtcaatgata tacagaagtt atggggaaa tttaacttggg caagtcagat ttacccagg 2700
 566 gttaaatgaa ggcaatttgt taaacttccctt agggggaaacca aagcattaaac agacatagta 2760
 567 ccactaactg aagaacgaca attaaatgg gcaaaaaaca gggaaatttt aaagaaccca 2820
 568 gtacatggat tatattatgaa cccatcaaaa gacttaatag ctgaaatataca gaaacagggg 2880
 569 catgaccaat ggacatatac aattttaccaaa gaaccatcca aaaatctgaa aacaggaaag 2940
 570 tatgcaaaaaa ggagactgc ccacactaat gacgttacaaa acgttacaca ggcagtgc 3000
 571 aagatagccca tggaaagcat agtaatatgg gggaaagactc ctaaattttatcatttcc 3060
 572 cagaaagaaa catggggAAC atggtgacca gactattggc aaggccatcg gattccttag 3120
 573 tggagttt ttaataccctt tcaccttagta aatttatgtt accagctaga gaaagaaccc 3180
 574 atatttaggag cagagactttt ctatgttagt ggacgacta atcgggaaac taaaatatgg 3240
 575 aaaggcagggtt atgttactgaa cagaggaaagg cagaaaaatgg tttcttcaac tggaaacaca 3300
 576 aatcagaaga ctgaatttaca agcaatttcg ctatctttac aggattcagg atcagaagta 3360
 577 aacatagttaa cagactcaca gtatgtttt cggaaatccat aaggccacaaacc agatagcagc 3420
 578 gaatcgaggc cagtcataca aataatagaa cagttataaa aaaaagaaag agtctaccc 3480
 579 tcatgggtac cagcacataa aggaatttgg gggaaatgaaac aagtagataa atttagtaatg 3540
 580 agtggaaatca ggagagtgtt gtttcttagat ggaatagata aggtctaaag agaacatgaa 3600
 581 agatatacaca gcaatttggg agcaatggctt agtgattttt atctgcccacc tatagttagca 3660
 582 aagaaatag tagccagctg tgataatgtt cagctaaaaag gggaaagccat gcatggccaa 3720
 583 gtagactgtt gtccaggat attggcaatta gactgttacac atctggaaagg aaaaataatc 3780
 584 ctggtagcag tccatgcagc cagtggtttt atagaagcag aggttattcc agcagaaaaaca 3840
 585 ggacaagaaa cagcacataat tatactaaaa tttagcaggaa gatggccagt caaaatataa 3900
 586 catacagaca atggcagttt ttccaccatc aatacagttt aagcagccctg ttgggtggca 3960
 587 ggtatccaaac aggaattttt aattccctac aatccccaaa gtcaggatg aatagaaatcc 4020
 588 atgaatataag aataaaagaa aatcataggg caggttacag atcaagctga gcacctttagg 4080
 589 acagcagttt aatggcagt atttccatc aattttaaaaaaa gaaaaggggg gattgggggg 4140
 590 tacagtgcag gggaaagaaat aatagacatac atgcaacacg acatataaac taaggaaatc 4200
 591 caaaaacaaa ttacaaaat tcaaaaatttt cgggtttattt acaggggacac cagagatcca 4260
 592 atttggaaag gaccagccaa actactctgg aaagggtgaag gggcagtatg aatacaggac 4320
 593 aatagtgtataaaaatgtt accaagaaga aagcagaaatg tcattttggaa ttatggaaaa 4380
 594 cagatggcag gtgtatgtt tggtggcaggat agacaggatg aagattggaa catggaaatg 4440

RECEIVED
JUL 07 2000

RAW SEQUENCE LISTING DATE: 06/07/2000
PATENT APPLICATION: US/09/184,418 TIME: 14:48:27

Input Set : A:\Hiv11.app
Output Set: N:\CRF3\06072000\1184418.raw

595	tcttagtaaag	caccatatgt	atgcttcaag	gagagctaaag	ggatggtttt	ataagacatca	4500
596	ttatgaaggc	agacatccaa	aaaataagtgc	agaagtacac	atcccattag	ggaaagctag	4560
597	attatgttaa	aaaacatcat	gggggtttca	aacacggggaa	agagattggc	atttgggtca	4620
598	tggtatctcc	atagaatgtt	gattgagaag	ataataagaca	caagtagacc	ctggccctgc	4680
599	aggccaacta	atccatatgc	attattttg	ttgttttgc	gactctgc	taaggaaagc	4740
600	catataggta	cataatgtt	gcccttaggt	tgatcatcaa	gcaggacata	ataaggtagg	4800
601	atctctacaa	tacttggcac	tgacagcatt	gataaaaacc	aaaagatata	agccacactct	4860
602	gccttagtgtt	agtaaaatgg	tagaggataa	atggaaacaa	cccccaaga	ccaggggccg	4920
603	cagagggaa	catacaatga	atggacacta	gagcttttag	aggcactca	gcagggaaagct	4980
604	gtcacaact	ttcttagacc	atgtccat	gacttaggac	aataatata	tgaacactat	5040
605	ggggatactt	gggggggatg	agaagctata	ataagaatct	tgcacaaact	actgttttatc	5100
606	catttcgaa	ttgggtgcgc	gcatacgaga	ataggcattt	tgcacacagag	aaggcaaga	5160
607	aatggagcca	gtagatccct	aactagagcc	ctggaccat	ccaggaagtc	agcctaaaac	5220
608	tgcctgttaa	aactgttttt	gtaaacactg	tagctatcat	tgtcttagtt	gttcccgagg	5280
609	aaaaggctta	ggcattttcc	atgtccaggaa	gaagcgaga	cagcgcgaa	agcgtctcc	5340
610	aagcgtgaa	gatcatcaaa	atcttatata	aaagcgtaa	tgtgtatata	acgtatatgt	5400
611	taatgacttc	tttagaaatc	ttatgcataat	tagactgtat	agtggcgc	atcatatgt	5460
612	tagttgtgt	gacttttagc	ggttatgat	ataagaatct	gtctaaagca	aggaaataatg	5520
613	ataggtaata	taagaaaaaa	agagaaagag	cagaagatag	tggcaatag	agtgtatggg	5580
614	acattgtga	attatcaaaa	cttggggggg	tggggacta	tgatcttgg	gtgtttaaca	5640
615	atttgtatgt	ctgcacaaac	cttgggggtt	actgtctact	atgggttacc	tgtgtggaaa	5700
616	gacgacagaga	ccacccattt	tttgtcata	gtatgttac	catatgtatc	agaaaagcat	5760
617	aatgtctggg	ctcacatcg	cttgttaccc	atagacccc	accacaaaga	aatacatttgc	5820
618	gaaaatgtga	cagaagagg	taacatgtgg	aaaataataca	tggtagagca	gatgcataca	5880
619	gataataatc	gtctatggca	ccaaaggctt	aaggccatgt	taaagttaac	ccctctctgc	5940
620	gttacttttag	agttgtacaa	catcaccat	gtcaacaca	ctgtcaacat	tacgatgtac	6000
621	atgaaaggag	aaataaaaaaa	ctgtctttc	aatatgacca	cagaattaag	ggataagaaaa	6060
622	cagagagtgt	atttactttt	ttataggctt	gatatagtac	aaatttaatag	caatagtaat	6120
623	aacagtatgc	ataatcgtat	taggttataa	aattgttaat	cctcagccat	tacacaggct	6180
624	tgtcacaaagg	tatcccttgc	gcacatttccc	ataataattat	gtggccccc	tggttccgc	6240
625	attctaaatgt	gttaagataa	aaagttcaat	ggaacagggc	catgcaagaa	tgtcagccaca	6300
626	gtacaaatgc	cacatgttac	caaggcgtat	gtatcaactc	agctgtgtt	aaatggcgt	6360
627	cttagcagaag	aagagataat	attatgtatc	aaaaatattt	caaacaatgc	caaaccata	6420
628	atagatacaac	ttacagagac	tgacaaattt	aattgttcc	gacctaaaca	caatacaga	6480
629	aaaagtgtac	atataggacc	aggacaagca	ttttatgc	cagggtacgt	aatagggat	6540
630	ataagacaac	catatgtgc	tgcaatggta	aaaaaaatgc	atagaactt	aaaaaaatgtt	6600
631	cgacaaaaat	taagtctacta	ctttgagaac	attacaaacaa	taatttttaa	gaactctca	6660
632	gggggggatt	tagaaattac	aacacatagt	ttaatttgt	gaggagaattt	ttttatgtt	6720
633	aatacatcg	gcttgtttaa	tagcacctgg	agtaaaaagaa	atggcaccc	gcagtcaat	6780
634	ggcacacaaat	taataataac	actccatgc	agaataaaag	aaattataaa	tatgttgc	6840
635	aggacaggac	aacgaatgtt	tgccccctccc	atccaaaggag	taataatgtt	tgtatcaac	6900
636	attacaggac	tactttaac	aaagagatgtt	ggaataataa	atactacaac	tgaacacttc	6960
637	agacatgggg	gaggagatat	gagggtataat	tggagaatgt	aactatataa	atataaaatgt	7020
638	gtaaaaattt	aaccaactgg	attagcacc	accaggccaa	agaggagat	gttggagaga	7080
639	ggaaaaaaat	cagggtggat	ggggactgtc	tttatgggt	tctttagggc	agcaggaa	7140
640	actatgggc	cggcgtaat	aacgtctgc	gtacaggcc	gacaattatt	gtctggcata	7200
641	gtcacaacgc	aaacgtat	gttgggggtt	atagaggctt	aaacgcattat	ataaaacttgc	7260
642	acagtctggg	gcattaaaca	gtcccgaggca	agagtctgg	ctctggaaag	atactaattgg	7320
643	gatcaacacgc	tccttaggaat	ttggggctgc	tctggaaac	tcatctgcac	cactaatgt	7380

RAW SEQUENCE LISTING DATE: 06/07/2000
PATENT APPLICATION: US/09/184,418 TIME: 14:48:27

Input Set : A:\Hiv11.app
Output Set: N:\CRF3\06072000\1184418.raw

RAW SEQUENCE LISTING DATE: 06/07/2000
PATENT APPLICATION: US/09/184,418 TIME: 14:48:28

Input Set : A:\Hiv11.app
Output Set: N:\CRF3\06072000\I184418 raw

```

3118 aagagataag aaaaagacag aatatgcgt tttctataga ctgtatgtgg taccaatcg 960
3119 tggtaataat aatgtctcaa ataactatag gctaataat tgtaatgtct caaccattaa 1020
3120 acaacgttg ccaaagggtg ctttgaccc acttccata cattattgtg ctccagctgg 1080
3121 gtttgcatt ttaaagtgtg gggtttagaaat ttctactggaa acagacataat gttaaatgt 1140
3122 cagttcgtat caatgtacac atggaaatata accgttgta tcaactcaat tactactaaa 1200
3123 tggtagtcta gcagaaggag aaatagataat tagatctgaa aacctcacag caaatgccaa 1260
3124 agtcataataat gtacagctta ataaaactat aggaaatataat tgtaatgttgcacag ccaacaacaa 1320
3125 tacaaaaaaa agataaagaa tcggacttgg acaagacgtt tatgcacaaat gttaaatgt 1380
3126 aggacaagaa tggcaggaga tggtagcataa ggtacacggca caactgaacaaat aggtctttaa 1440
3127 caaaagtat acccttaact catcccgagg aggggaccta gaaattacaa cacatagttt 1500
3128 taattgtata ggagaattttt tctattttgtat tacatccggaa ttgtttaatgt aatcaggagg 1560
3129 gaatgatacc actatccacac tcccattatgaa gataaaacaaat ttgttgcacag 1620
3130 agtgggacaa gcaatgtatg cccctcccat cgccaggat attacatgtat gatccaatcat 1680
3131 tacagggttataaacaacaa gagatgttgg gtttaataat actggaaatgt agacccatcg 1740
3132 acctggaggaa ggagatgtat gggacacattt gagaatgtaa ttatataatgtt aaaaatgtt 1800
3133 aaaaattaaa ccacttagggaa tagcccccaacaa caagggcaagg aaaaatgtgg 1860
3134 aaaaaggcca gttggactgg gagctgtttt ctttgggttc tttaggacgacg caggaaacac 1920
3135 tatgggcgcg ggttcaatataat cgcgtacgggtt acaggatgttgcacatgtt ctggcatatgt 1980
3136 gcaacacgaa agcaattttgc tgagggttat agaggccgcg caacatctatgt tgcacactc 2040
3137 agtctggggc attaaacacgc tccaggacaaat agtctgttgcgtt gttttttttt 2100
3138 tcaacacgtt ctagggtt gggctgttgc tggaaaactt atctgcacca ctaatgtgcc 2160
3139 ttggaaactt agttggatgtt aataatcttca ttggaggatgtt gggataaca tgacccgtt 2220
3140 acaatggaaat gggaaatgttca gcaattacatca acaacaaatataat tttttttttt 2280
3141 gcaagaccaat caggaaaaga atgaacaaga cttatggca ttggacaaatgtt gggcaatgtt 2340
3142 ttggaaactgg tttgacatataat cttatggca ttggacaaatgtt gggcaatgtt 2400
3143 aggggttttta ataggtttttta gaatgttttca ttggatgttataatgttta taatgtatgt 2460
3144 gcagggttacatcccttttgcatttccacac ctttacccacac ctttacccacac ctttacccacac 2520
E--> 3145 gccccaaaga atcgaaagaag gaggtggaga gcaagacataat gacatgttgc tggcgtttag 2579

```

VERIFICATION SUMMARY
PATENT APPLICATION: US/09/184,418

DATE: 06/07/2000
TIME: 14:48:29

Input Set : A:\Hiv11.app
Output Set: N:\CRF3\06072000\I184418.raw

L:12 M:270 C: Current Application Number differs, Replaced Current Application Number
L:354 M:259 W: Field exceeds allowed number of lines, <223> Other Information:
L:515 M:250 E: Invalid Numeric Identifier, INVALID IDENTIFIER
L:682 M:259 W: Field exceeds allowed number of lines, <223> Other Information:
L:846 M:259 W: Field exceeds allowed number of lines, <223> Other Information:
L:1010 M:259 W: Field exceeds allowed number of lines, <223> Other Information:
L:1175 M:259 W: Field exceeds allowed number of lines, <223> Other Information:
L:3145 M:252 E: (20) Calc# of Seq. differs from actual, <211> LENGTH:Input:2578 Counted:2579